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APPLICATION NO.	F	TLING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
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5642	7590	06/13/2005		EXAMINER		
		ANTA, INC.	MATTIS,	MATTIS, JASON E		
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LAWRENC	LAWRENCEVILLE, GA 30044					
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Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	09/800,717	MCKINNON ET AL.				
Office Action Summary	Examiner	Art Unit				
	Jason E. Mattis	2665				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period was period for reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	86(a). In no event, however, may a reply be tin within the statutory minimum of thirty (30) day rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status		•				
 1) ⊠ Responsive to communication(s) filed on 22 Fe 2a) ☐ This action is FINAL. 2b) ⊠ This 3) ☐ Since this application is in condition for allowar closed in accordance with the practice under E 	action is non-final. nce except for formal matters, pro					
Disposition of Claims						
4) ☐ Claim(s) 1-29 and 31-64 is/are pending in the a 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-29 and 31-64 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10)☐ The drawing(s) filed on is/are: a)☐ acce	epted or b) \square objected to by the I	Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
The path of declaration is objected to by the Ex	ammer. Note the attached Office	ACION OF IOIN PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori	s have been received. s have been received in Applicati ity documents have been receive	on No				
* See the attached detailed Office action for a list of the certified copies not received.						
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Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	6) Other:	atent Application (PTO-152)				

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DETAILED ACTION

1. This Office Action is in response to the amendment filed on 2/22/05. Claim 30 has been cancelled. Claims 1-29 and 31-64 are currently pending in the application.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-4, 6, 8-11, 13, 15-25, 46-54, 28-31, 33-37, 39-40, 42-54, 57-59, 61, and 62 rejected under 35 U.S.C. 102(e) as being anticipated by Pandya et al. (U.S. Pat. 6671724).

With respect to claim 1, Pandya et al. discloses a method of providing access across a shared communications medium in a downstream direction towards competing users (See column 4 lines 22-29 and Figure 2 of Pandya et al. for reference to a method of managing network resources across a shared communications medium in a downstream direction). Pandya et al. also discloses monitoring access usage by each user during a time interval (See column 15 lines 46-58 of Pandya et al.

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for reference to monitoring and reporting the amount of bandwidth used by a user device during a prior time period). Pandya et al. also discloses forecasting downstream network access usage by each user during a future time interval based on the monitored network access usage by each user (See column 16 line 29 to column 17 line 4 and Figure 11A of Pandya et al. for reference to based on monitored usage, UB, forecasting that a user will need more network access, as in step S6 where it is determined that the used bandwidth and maximum allocated bandwidth are approximately equal with the fair share bandwidth being more than the maximum allocated bandwidth, or forecasting that a user will need less network access, as in step S8 where it is determined that the used bandwidth is less that the maximum allocated bandwidth). Pandya et al. further discloses based on the forecasting, allocating network access to each user on a per user basis for a future time interval (See column 16 line 28 to column 18 line 17 and Figures 11A-11D of Pandya et al. for reference to methods of dynamically allocated bandwidth to users based on the monitored bandwidth UB and forecasted bandwidth for a future time period).

With respect to claim 39, Pandya et al. discloses a method of providing network access across a shared communications medium between competing users (See column 4 lines 22-29 and Figure 2 of Pandya et al. for reference to a method of managing network resources of users across a shared communications medium).

Pandya et al. also discloses monitoring network access usage by each user during a time interval (See column 15 lines 46-58 of Pandya et al. for reference to

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monitoring and reporting the amount of bandwidth used by a user device during a prior time period). Pandya et al. further discloses forecasting upstream and downstream network access usage by each user during a future time interval based on the monitored network access usage by each user (See column 16 line 29 to column 17 line 4 and Figure 11A of Pandya et al. for reference to based on monitored usage, UB, forecasting that a user will need more network access, as in step S6 where it is determined that the used bandwidth and maximum allocated bandwidth are approximately equal with the fair share bandwidth being more than the maximum allocated bandwidth, or forecasting that a user will need less network access, as in step \$8 where it is determined that the used bandwidth is less that the maximum allocated bandwidth). Pandya et al. further discloses based on the forecasting, allocating network access to each user for the future time interval (See column 16 line 28 to column 18 line 17 and Figures 11A-11D of Pandya et al. for reference to methods of dynamically allocated bandwidth to users based on the monitored bandwidth UB and forecasted bandwidth for a future time period).

With respect to claim 2, Pandya et al. discloses that network access comprises bandwidth across the shared communications medium for consumption by each user (See column 15 lines 46-58 of Pandya et al. for reference to monitoring the amount of bandwidth used by each user).

With respect to claims 3 and 61, Pandya et al. discloses that network access allocation represents a bandwidth allowance of a respective user during the future time interval (See column 15 lines 46-58 of Pandya et al. for reference to the bandwidth

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CB being a user's "fair share" of available bandwidth, and thus a bandwidth allowance for the upcoming cycle).

With respect to claims 4 and 62, Pandya et al. discloses that network access allocation represents bandwidth utilized by each user during the future time interval (See column 15 lines 46-58 of Pandya et al. for reference to the bandwidth CB being the expected amount, or "fair share" amount, of bandwidth a user will use in the upcoming cycle).

With respect to claim 6, Pandya et al. discloses that the time interval for which network access usage is monitored and the future time interval are equal in length (See column 21 lines 39-54 of Pandya et al. for reference to the default interval for recalculating bandwidth allocations being 5 seconds, meaning that at equal 5 second intervals the bandwidth is monitored and then the future bandwidth allowance is calculated for the next 5 second interval).

With respect to claims 8-9, Pandya et al. discloses collecting data representative of logic data units and the number of bytes and data packets transmitted to each user during a time interval (See column 15 lines 23-58 of Pandya et al. for reference to monitoring and reporting the amount of bandwidth used by each user, which is the same as collecting data representative of a number of logic data units transmitted during a time interval since a bandwidth is always measured in units of data per time, and for reference to monitoring the amount of transmitted packets during a cycle, or time period).

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With respect to claims 10 and 11, Pandya et al. discloses collecting data representative of the number of logical data unit, bytes, and packets of the user that are dropped during a time interval (See column 21 lines 17-37 of Pandya et al. for reference to measuring the loss of a data stream to compare this loss against a minimum threshold, which means that the number of bytes and packets dropped, or lost, during a time interval is measured).

With respect to claim 13, Pandya et al. discloses that the shared communications medium is part of a Shared Access Carrier Network (See column 3 lines 52-61 and Figure 2 of Pandya et al. for reference to the network being a shared communications medium since the devices 20 and 22 all share a common network link 24 and a common connection to router 18).

With respect to claim 15, Pandya et al. discloses that the Shared Access

Carrier Network comprises a wireless network (See column 4 line62 to column 5 line

11 and Figure 2 of Pandya et al. for reference to the network wireless computing devices, mobile telephones, or pagers, meaning the network is a wireless communications network).

With respect to claim 16, Pandya et al. discloses prioritizing the users for allocated network access (See column 15 liens 1-22 of Pandya et al. for reference to re-allocation of bandwidth being based on priority data for users).

With respect to claims 17 and 46, Pandya et al. discloses that the prioritizing is based on fairness considerations (See column 15 lines 1-22 of Pandya et al. for

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reference to re-allocating user bandwidth according to priority data so that each user is allocated a fair share of the available bandwidth).

With respect to claims 18 and 47, Pandya et al. discloses that users are prioritized based on user throughput during a time interval (See column 16 lines 20-27 of Pandya et al. for reference to providing bandwidth first to agents that have low allocations, meaning the bandwidth allocation is prioritized making a low throughput connection have a higher priority relative to a high throughput connection).

With respect to claims 19 and 48, Pandya et al. discloses that the users are prioritized based on data loss for each user during a time interval (See column 21 lines 16-37 of Pandya et al. for reference to giving priority of bandwidth allocations to users that have a data loss that is above a minimum threshold).

With respect to claims 20 and 49, Pandya et al. discloses that users are prioritized based on network access usage for a particular time of day (See column 15 lines 1-22 of Pandya et al. for reference to priority being based on time of day).

With respect to claims 21 and 50, Pandya et al. discloses that users are prioritized based on both user throughput and data loss of the user during a time interval (See column 21 lines 16-37 of Pandya et al. for reference to giving priority of bandwidth allocations to users based on both a minimum bandwidth and a minimum data loss requirement).

With respect to claims 22 and 51, Pandya et al. discloses that users are prioritized based on an established minimum quality of service standard (See column

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14 lines 52-68 of Pandya et al. for reference to allocating bandwidth using priorities based on policy-based QoS techniques by coordinating service-level enforcements).

With respect to claims 23 and 52, Pandya et al. discloses that prioritizing is based on service level agreements of the users (See column 14 lines 52-68 and column 21 lines 16-37 of Pandya et al. for reference to reference to allocating bandwidth using priorities based on policy-based QoS techniques by coordinating service-level enforcements and for reference to allocating bandwidth based on minimum thresholds of service level requirements for users).

With respect to claims 24 and 53, Pandya et al. discloses that the service level agreements specify minimum levels of network access for users and prioritizing includes comparing the monitored levels of network usage with the minimum levels of network access and giving priority when the monitored level is below the minimum level (See column 21 lines 16-37 and Figure 11A-D of Pandya et al. for reference to setting minimum thresholds for bandwidth and giving priority to allocate more bandwidth to a user when the user bandwidth monitored falls below the minimum threshold).

With respect to claims 25 and 54, Pandya et al. discloses that service level agreements specify time-of-day minimum levels of network access for users and prioritizing by comparing the monitored network access usage with the minimum time-of-day levels and giving priority to users that fall below the minimum (See column 14

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lines 52 to column 15 line 22, column 21 lines 16-37, and Figures 11A-D of Pandya et al, for reference to prioritizing users based on time of day requirements and for reference to giving users priority access to more bandwidth when the current bandwidth is below a minimum threshold).

With respect to claims 28 and 57, Pandya et al. discloses respective credits for levels of network access and prioritizing based on each user's respective credit (See column 21 liens 16-37 of Pandya et al. for reference to setting minimum bandwidth thresholds, which are minimum credits, for users and prioritizing based on users being below their minimum thresholds).

With respect to claims 29 and 58, Pandya et al. discloses service level agreements specifying minimum levels of access for users and allocating access to each user's respective minimum level of network access (See column 21 lines 16-37 of Pandya et al. for reference to allocating bandwidth to users based on a minimum bandwidth threshold for the users).

With respect to claims 31 and 40, Pandya et al. discloses predicting future network access usage of each user based upon monitored past network access usage (See column 15 line 46 to column 18 line 17 and Figures 11A-D of Pandya et al. for reference to predicting a future bandwidth CB based on the monitored bandwidth UB that a user has used in a previous cycle).

With respect to claims 33 and 42, Pandya et al. discloses allocating network access to users proportional to each user's forecasted network access usage (See column 15 line 46 to column 18 line 17 and Figures 11A-D of Pandya et al. for

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reference to allocating bandwidth to users proportional to each user's forecasted fair share bandwidth CB by either increasing or decreasing the allocated bandwidth in accordance with the fair share bandwidth).

With respect to claims 34 and 43, Pandya et al. discloses prioritizing the user for allocating network access usage (See column 15 lines 1-22 of Pandya et al. for reference to re-allocating bandwidth for users based on priority data).

With respect to claims 35 and 44, Pandya et al. discloses that the prioritizing is based on each user's forecasted network access usage (See column 16 lines 4-28 of Pandya et al. for reference to allocating bandwidth in a prioritized method to each of the users based on the forecasted bandwidth CB).

With respect to claims 36 and 45, Pandya et al. discloses that users are prioritized in increasing order of each user's forecasted network access usage (See column 16 lines 4-28 of Pandya et al. for reference to allocating bandwidth first to users that have low allocations before allocating bandwidth to users having high allocation, meaning the users are prioritized in order from low bandwidth, CB, to high bandwidth, CB).

With respect to claims 37 and 59, Pandya et al. discloses allocating network access to the users equal to each user's forecasted network access usage and then allocating remaining access equally to the users (See column 16 lines 4-28 and Figures 11A-D of Pandya et al. for reference to allocating bandwidth to users to meet the fair share bandwidth, CB, and then allocating extra bandwidth equally to users in order of priority).

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Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 5 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pandya et al. in view of Barnes et al. (U.S. Pat. 6529486).

With respect to claims 5 and 7, although Pandya et al. does disclose monitoring and reallocating bandwidth allocations at time intervals of 5 seconds (See column 14 lines 52-68 of Pandya et al. for reference to monitoring and recalculating bandwidth allocations every five seconds), Pandya et al. does not disclose monitoring in intervals of fifteen to sixty minutes with the monitored and future time interval being both one minute to sixty minutes in length.

With respect to claims 5 and 7, Barnes et al., in the field of communications, discloses monitoring traffic and producing a usage record in time periods of 6, 10, 15, 30, or 60 minutes (See column 33 lines 11-25 of Barnes et al. for reference to the time periods of 15, 30, or 60 minutes, which are in the range of fifteen to sixty minutes). Using monitoring intervals of 15, 30, or 60 minutes has the advantage of

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having the monitoring system take up less network bandwidth since the monitored data must only be transmitted every 15 minutes, at least, instead of every 5 seconds.

It would have been obvious for one of ordinary skill in the art at the time of the invention, when presented with the work of Barnes et al., to combine monitoring intervals of 15, 30, or 60 minutes, as suggested by Barnes et al., with the method of Pandya et al., with the motivation being to have the monitoring system take up less network bandwidth since the monitored data must only be transmitted every 15 minutes, at least, instead of every 5 seconds.

5. Claims 12, 38, and 60 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pandya et al. in view of Hanko et al. (U.S. Pat. 6438141).

With respect to claims 12, 38, and 60, Pandya et al. does not disclose allocating network access equally to users and allocating extra network access to users proportionally based on a forecasted network access usage.

With respect to claims 12, 38, and 60, Hanko et al., in the field of communications, discloses allocating extra network access to users proportionally based on each user's forecasted network access usage (See column 11 lines 33-40 and Figure 5 of Hanko et al. for reference to allocating bandwidth to users in an amount requested and then allocating remaining bandwidth proportionally to each user). Allocating extra network access proportionally to users based on forecasted network access usage has the advantage of allowing users that require more

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network access to receive a higher amount of excess network access than users that require less network access.

It would have been obvious for one of ordinary skill in the art at the time of the invention, when presented with the work of Hanko et al., to combine allocating extra network access proportionally to users based on forecasted network access usage, as suggested by Hanko et al., with the method of Pandya et al., with the motivation being to allow users that require more network access to receive a higher amount of excess network access than users that require less network access.

6. Claims 14, 63, and 64 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pandya et al. in view of Farah (U.S. Pat. 6567418).

With respect to claim 14, Pandya et al. does not disclose that the network is a cable network.

With respect to claim 63, Pandya et al. discloses a method of providing network access across a shared communications medium between competing users (See column 4 lines 22-29 and Figure 2 of Pandya et al. for reference to a method of managing network resources of users across a shared communications medium). Pandya et al. also discloses monitoring network access usage by each user during a time interval (See column 15 lines 46-58 of Pandya et al. for reference to monitoring and reporting the amount of bandwidth used by a user device during a prior time period). Pandya et al. further discloses based on the monitoring, forecasting the number of logical data units of each user that will be transmitted over a

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future time interval (See column 16 line 29 to column 17 line 4 and Figure 11A of Pandya et al. for reference to based on monitored usage, UB, forecasting that a user can send more logical data units, as in step S6 where it is determined that the used bandwidth and maximum allocated bandwidth are approximately equal with the fair share bandwidth being more than the maximum allocated bandwidth, or forecasting that a user will send less logical data units, as in step S8 where it is determined that the used bandwidth is less that the maximum allocated bandwidth). Pandya et al. further discloses based on the forecasting, allocating network access to each for the future time interval (See column 16 line 28 to column 18 line 17 and Figures 11A-11D of Pandya et al. for reference to methods of dynamically allocated bandwidth to users based on the monitored bandwidth UB and forecasted bandwidth for a future time period). Pandya et al. does not disclose that the network is a cable network.

With respect to claim 64, Pandya et al. discloses a method of providing network access across a shared communications medium between competing users (See column 4 lines 22-29 and Figure 2 of Pandya et al. for reference to a method of managing network resources of users across a shared communications medium). Pandya et al. also discloses monitoring network access usage requested by each user during a time interval (See column 15 line 59 to column 16 line 3 of Pandya et al. for reference to monitoring users' requested bandwidth). Pandya et al. further discloses based on the monitoring, forecasting the number of logical data units of each user that will be requested over a future time interval (See column 16 line 29 to

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column 17 line 4 and Figure 11A of Pandya et al. for reference to based on monitored usage, UB, forecasting that a user will request to send more logical data units, as in step S6 where it is determined that the used bandwidth and maximum allocated bandwidth are approximately equal with the fair share bandwidth being more than the maximum allocated bandwidth, or forecasting that a user will request to send less logical data units, as in step S8 where it is determined that the used bandwidth is less that the maximum allocated bandwidth). Pandya et al. further discloses based on the forecasting, allocating network access to each for the future time interval (See column 16 line 28 to column 18 line 17 and Figures 11A-11D of Pandya et al. for reference to methods of dynamically allocated bandwidth to users based on the monitored bandwidth UB and forecasted bandwidth for a future time period). Pandya et al. does not disclose that the network is a cable network.

With respect to claims 14, 63, and 64, Farah, in the field of communications, discloses monitoring and managing bandwidth demands for data over a cable TV network using coaxial cables (See column 1 liens 27-39 of Farah et al. for reference to the cable network). Monitoring and allocating bandwidth of a cable network has the advantage of making sure that the users of the cable network each received their fair share of allocated network resources.

It would have been obvious for one of ordinary skill in the art at the time of the invention, when presented with the work of Farah, to combine the cable network of

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Farah with the method of Pandya et al., with the motivation being to make sure that the users of the cable network each received their fair share of allocated network resources.

7. Claims 26 and 55 rejected under 35 U.S.C. 103(a) as being unpatentable over Pandya et al. in view Gemar et al. (U.S. Pat. 6483839).

With respect to claims 26 and 55, Pandya et al. discloses minimum levels of network access and prioritizing allocation based on these minimum levels (See column 21 lines 16-37 and Figure 11A-D of Pandya et al. for reference to setting minimum thresholds for bandwidth and giving priority to allocate more bandwidth to a user when the user bandwidth monitored falls below the minimum threshold); however, Pandya et al. does not disclose also using maximum burstable data levels to also prioritize users.

With respect to claims 26 and 55, Gemar et al., in the field of communications, discloses using both minimum and maximum burstable network access levels to prioritize users for network access allocation (See column 4 lines 36-45 and column 19 lines 45-53 of Gemar et al. for reference to adjusting priority levels based on minimum rates and for reference to using a maximum burst state to schedule bandwidth allocations). Using both minimum and maximum burstable network access levels to prioritize users for network access allocation has the advantage of making sure each user at least receives the minimum network access allocation while also limiting users from using over a maximum bandwidth during a time period.

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It would have been obvious for one of ordinary skill in the art at the time of the invention, when presented with the work of Gemar et al., to combine using both minimum and maximum burstable network access levels to prioritize users for network access allocation, as suggested by Gemar et al., with the method of Pandya et al., with the motivation being to make sure each user at least receives the minimum network access allocation while also limiting users from using over a maximum bandwidth during a time period.

8. Claims 27 and 56 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pandya et al. in view of Hou et al. (U.S. Pat. 6324184).

With respect to claims 27 and 56, Pandya et al. does not disclose prioritizing users for network access allocation based on users' fees in decreasing order of fees.

With respect to claims 27 and 56, Hou et al., in the field of communications, discloses prioritizing users for bandwidth allocation based on decreasing order of fees paid by the users (See column 2 lines 36-56 of Hou et al. for reference to giving priority access to excess bandwidth to users based on the fee that the user pays). Prioritizing users for bandwidth allocation based on decreasing order of fees paid by the users has the advantage of providing users that pay more money for network access a higher priority during network access allocation, thereby giving users an incentive to pay a higher fee for access.

It would have been obvious for one of ordinary skill in the art at the time of the invention, when presented with the work of Hou et al., to combine prioritizing users for

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bandwidth allocation based on decreasing order of fees paid by the users, as suggested by Hou et al., with the method of Pandya et al., with the motivation being to provide users that pay more money for network access a higher priority during network access allocation, thereby giving users an incentive to pay a higher fee for access.

9. Claims 32 and 41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pandya et al. in view of Huang et al. (U.S. Pat. 6151852).

With respect to claims 32 and 41, Pandya et al. does not disclose using an adaptive-response-rate single exponential smoothing function and a Holt-Winters' seasonal exponential smoothing function.

With respect to claims 32 and 41, Huang et al., in the field of communications, discloses using both an exponential smoothing function and a Holt-Winters smoothing function (See column 45 line 5 to column 47 line 48 of Huang et al. for reference to using these smoothing function). Using both an exponential smoothing function and a Holt-Winters smoothing function has the advantage of providing accurate models to predict future values based on past values.

It would have been obvious for one of ordinary skill in the art at the time of the invention, when presented with the work of Huang et al., to combine using both an exponential smoothing function and a Holt-Winters smoothing function, as suggested by Huang et al., with the method of Pandya et al., with the motivation being to provide accurate models to predict future values of allocated bandwidth based on past values of allocated bandwidth.

Response to Arguments

10. In response to Applicant's argument that:

"As clearly illustrated in this passage, "fair share" is not the same as "forecasting downstream network access usage by each user during a future time interval based on said monitored network access usage by each user." (See page 16 of Applicant's Remarks)

the Examiner agrees that the previous cited section in reference to computing a fair share of available bandwidth is not the same as forecasting network access usage. Accordingly, different sections of Pandya et al. have been cited to meet the claim limitations in this Office Action and this Office Action is made non-final.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason E. Mattis whose telephone number is (571) 272-3154. The examiner can normally be reached on M-F 8AM-4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on (571) 272-3155. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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